

1.2kW OEM Microwave Generator, 2.45 GHz

GERLING

Model GA4302
Model GA4305
Model GA4315

The 1.2kW OEM Microwave Generator System is designed for use with industrial process equipment requiring a high performance yet economical source of microwave power. Consisting of separate magnetron head and switch mode power supply modules, this OEM system is easily integrated into production equipment with minimal design effort. All control functionality is provided remotely by the user to help reduce system cost.

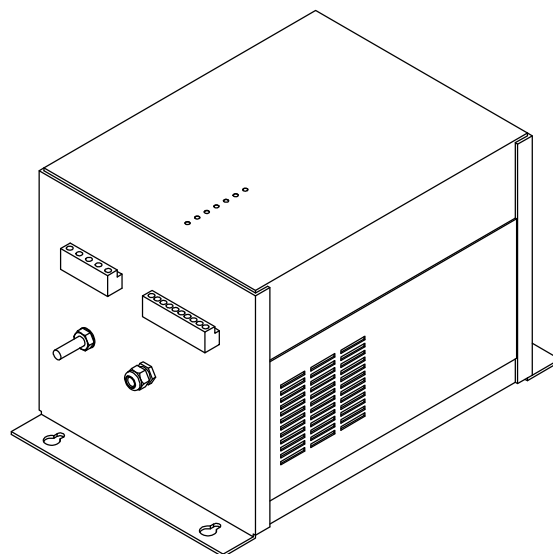
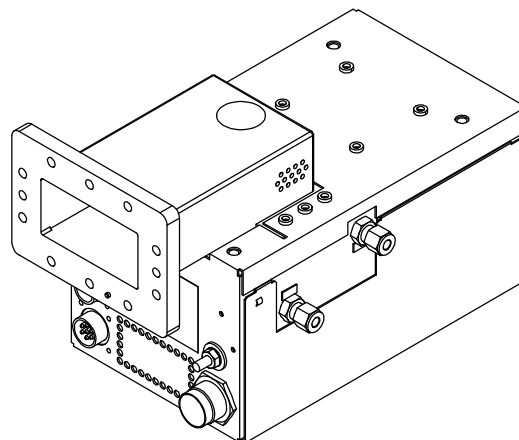
The magnetron head meets safety compliance requirements regardless of location within a system, while the power supply requires installation inside a compliant enclosure. Both units are constructed of stainless steel for a striking appearance and rugged durability. Convenient mounting holes facilitate equipment integration.

Safety and serviceability were primary considerations in design of the OEM system. User- and service-friendly features include:

- ◆ Multiple interlock devices protect against exposure to high power microwave energy and hazardous voltages.
- ◆ Removal and replacement of the internal magnetron can be accomplished in less than ten minutes using standard tools.
- ◆ Captive hardware used for all fasteners relating to magnetron removal, thus preventing loss or misuse of loose hardware.

The complete system includes mating connectors and a standardized 6 ft. cable harness for connecting between the magnetron head and power supply (lengths may be specified by customer). Optionally, the interconnect cables and/or connector set may be ordered separately. Contact GAE for more detailed information on these and other available options and custom configurations.

Model GA4305 also features the popular WR284 Q-D (quick-disconnect) round flange that uses the convenient single screw clamp (GAE model GA8410) for waveguide connections.



(Model GA4302 shown)

General Specifications:

Output Frequency	2450 MHz +/- 30 MHz
Output Power (max)	1.2kW (variable)
Output Control	Continuously variable 10-100%
Output Ripple	22% RMS @ full output 12% RMS @ half output pulse rate = 2x line power frequency
Regulation:	<3% for +/- 10% line voltage variation
Magnetron	Water-cooled Panasonic 2M137
Output Waveguide	GA4302: WR340 GA4305 and GA4315: WR284
Output Flange	GA4302: CPRF (UG554/U) GA4305: Round (UG584/U) Q-D GA4315: CPRF (UG1725/U)
Cooling	MH: Water @ 0.5 gpm PS: Forced air by internal fan
Input Power	180-265 VAC, 50/60 Hz, single-phase, 10.5 A (@230 VAC)
Remote Controls	Mw Enable (8-30 VDC input) Mw Adjust (0-10 VDC input) Mw Power Ref. (0-10 VDC output) Alarm relay contact (N.O.) Interlock Loop

Interlocks	Waveguide flange; Access cover; Magnetron over-temp
Weight (approx.)	MH: 17 lbs (8 kg) PS: 13 lbs (6 kg)

Accessories:

- ◆ Flange Hardware Kit, Model GA8409 (please see GA8409 specification for selection)
- ◆ Flange Clamp, Quick-Release, Model GA8410
- ◆ Mating Connector Set, p/n 911009 (for custom interconnect cable set)



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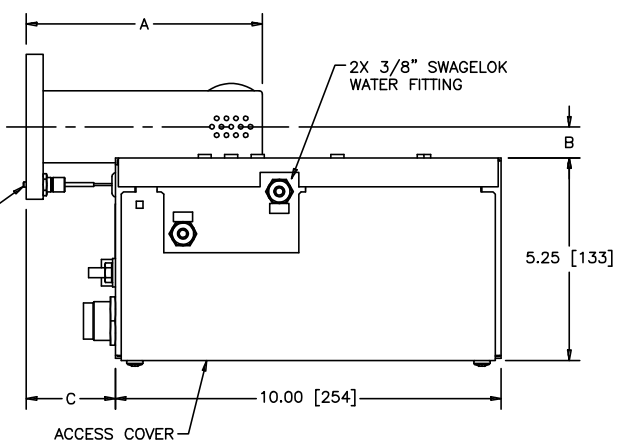
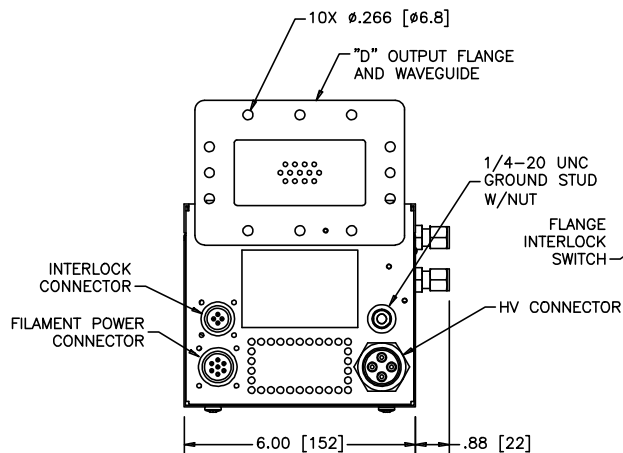
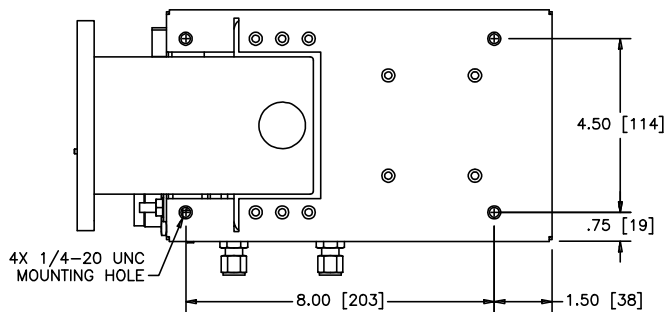
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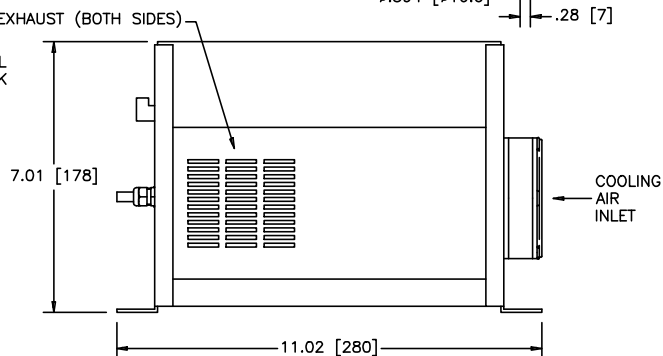
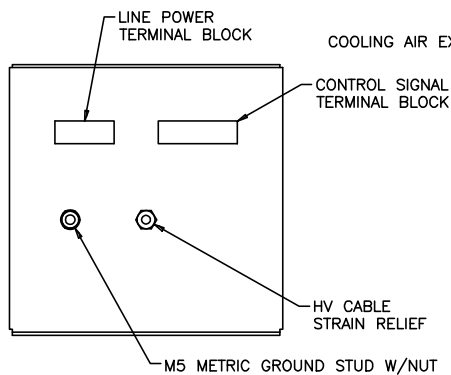
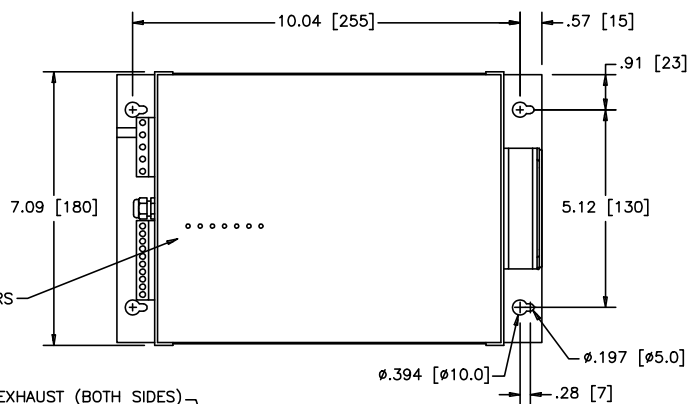
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MAGNETRON HEAD (GA4302 SHOWN)

CONFIGURATION TABLE				
MODEL	"A" DIM	"B" DIM	"C" DIM	"D" FLANGE
GA4302	6.12 [155]	.80 [20]	2.32 [59]	WR340 CPR
GA4305	6.12 [155]	.62 [16]	2.32 [59]	WR284 RND
GA4315	6.00 [152]	.62 [16]	2.19 [56]	CPR284



POWER SUPPLY



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All dimensions are in inches [millimeters].